

**AMENDMENTS TO THE SPECIFICATION:**

*On page 1 after the title, please insert the following new headers and paragraph:*

**RELATED APPLICATIONS**

The present application is based on International Application No. PCT/JP04/10093 filed July 15, 2004, and claims priority from, Japan Application Number 2003-275037 filed July 16, 2003, the disclosures of which are hereby incorporated by reference herein in its entirety.

*Please amend the paragraph beginning on page 1, line 29, and ending on page 2, line 3, as follows:*

The BSIM is formed of a large number of equations, and the number of parameters to be tuned is more than 50. Regarding the physical models of transistors and conventional parameter tuning methods, because they are described for example in the following document, their detailed explanations are referred to herein and omitted.